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StWhy1 MSNFSLSPSPTSGFSLNLQNPTKTSYLSFSSSINTIFAPLSSNTTKSFGLTHKAALPRNLSLTCRHSY 70
 AtWhy1 MS..QLLSTPLMAVN.....SNPRFLSSS.SVLVTGGFAVKRHGFALKPTTKTVKLFVSVKSRQTDY 60
 AtWhy2 MKQARSLLSRSLCDQSKS...LFEASTLRGFASWSNSSTPGRGFGPKDAAKP
 AtWhy3 MS..QLLSSPPMAVFSKTFINHKFSDARELSH.SILTSGGFAGK..IIPLKPTAR..LKLTVKSRQSDY
 Consensus F S

StWhy1 FEPQQQQQQQQP.QGASTPKVIFVGYSTYKGAALTVEPRSPEFFSPLDGSAFKLSREGVMILQFAPAAAG *
 AtWhy1 FEKQRFGDSSSPAEGLPARFVVGHSYKGAALTVDPRAPEEVALDSCGAFKLSKDCFLQLQFAPSAG
 AtWhy2SGRLFAPISTYKGAALSVFVLPSEFTEIDSGNLRIDRRGSLMMTTEMPAIG
 AtWhy3 FEKQRFGDSSSSQN.AEVSSPRFYVGHSTYKGAALT.EPRAPPEFVALESGAFKLTKEGFLQLQFAPAAAG
 Consensus r f SLYKGAALtveP P F IdSG kl r G lml F P G

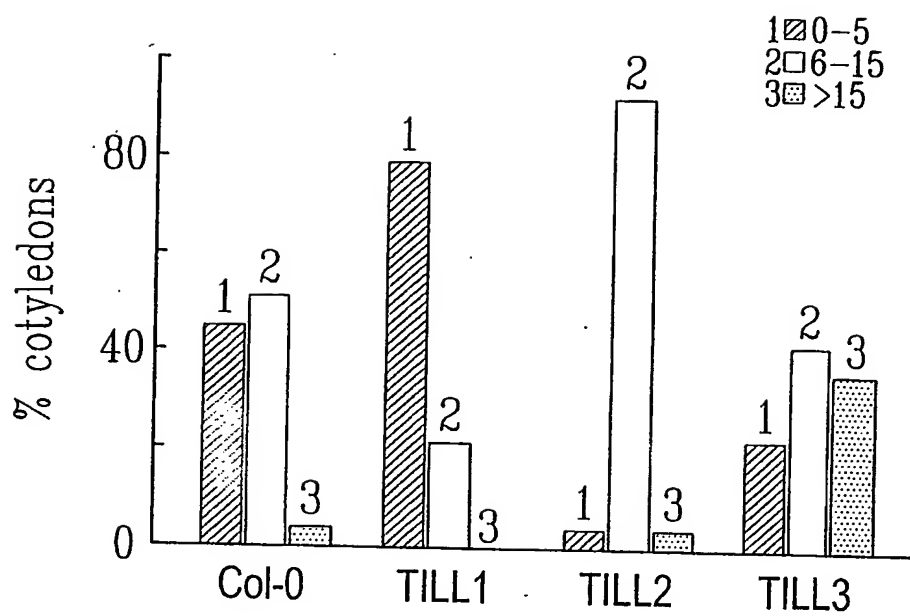
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 AtWhy1 VRQYDWSRKQVFSLSVTEIGTLVSLGPRESCFFHDPDFKGSDEGKVRKVLKVEPLPDGSGHFFNLSVQN
 AtWhy2 ERKYDWEKKQKFAISPTFVGSLSMGSKDSSEFFHDPNKGSRDEGKVRKVLKVEPLPDGSGHFFNLSVQN
 AtWhy3 VRQYDWSRKQVFSLSVTEIGNLVSLGPRESCFFHDPDFKGSDEGKVRKVLKVEPLPDGSGHFFNLSVQN
 Consensus R YDW rKQ F LS TEIG IISIG kds EFFHDP G VRK L V P DGSG F LSVqN

StWhy1 KLNLNDENIYIPVTKAEFAVLVSATNFVMPYLGWHTAVNSFKPEEDA.SR.SNNANPRSGALEEWNR (SEQ ID NO:1)
 AtWhy1 KLVNVDESIYIPVTKAEFAVLISAFNFVLPYLGWHTAFANSIKPEET.SR.VNNASPNYGGDYEMNR (SEQ ID NO:2)
 AtWhy2 SILKTNIDYFVVPVTKAEFAVMKTAFFSALPHIMGNWRLTGHVNTALPSRNVSHLKTPEQLLEWMDK (SEQ ID NO:3)
 AtWhy3 KLVNVDSESVYLPVTKAEFAVLISAFNFVLPYLGWHTAFANSIKPEEDS.NR.LNNASPKYGGDYEWSR (SEQ ID NO:4)
 Consensus II e iPvTKAEFAVI sAF F IP IIGW E R e EW r

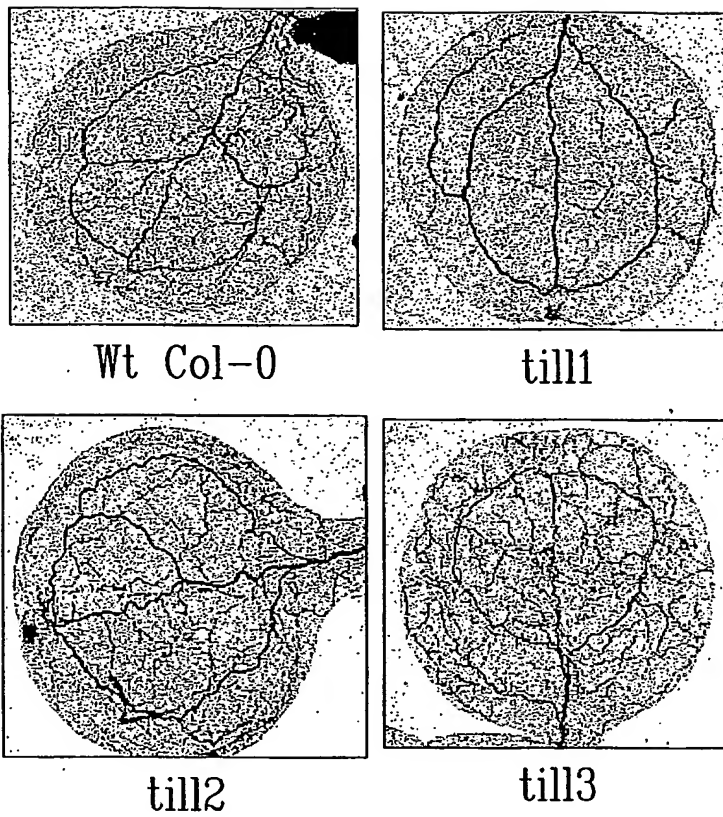
Fig-1

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Fig-2

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Fig-3

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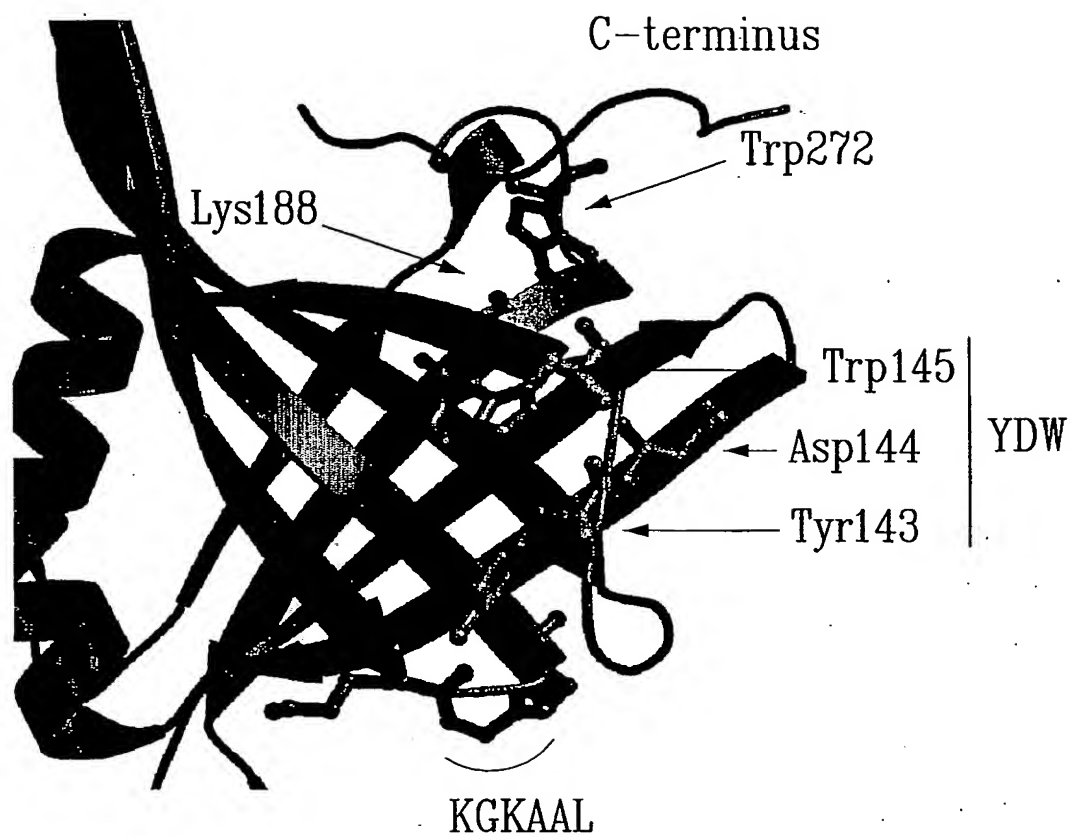


Fig-4

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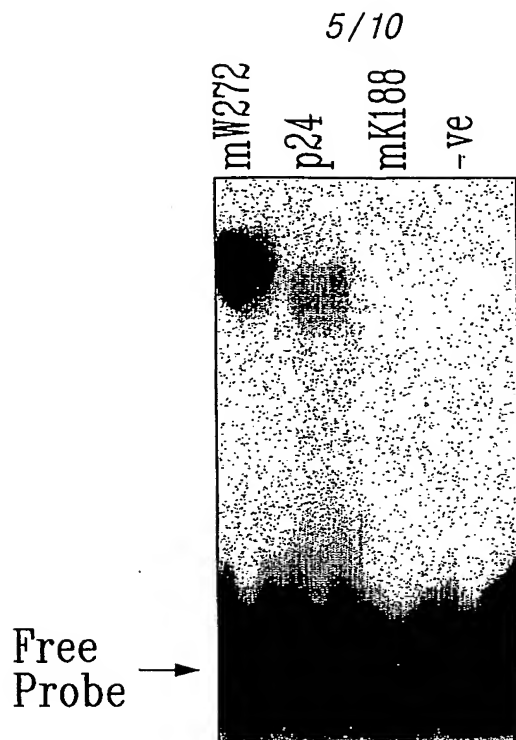


Fig- 5A

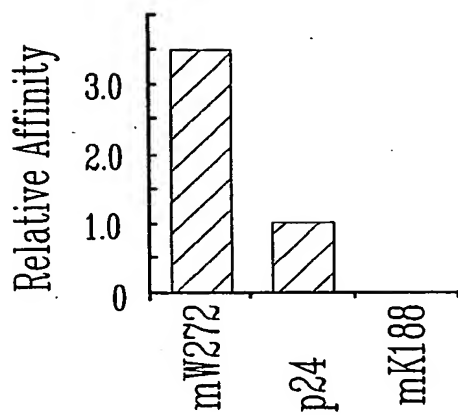


Fig- 5B

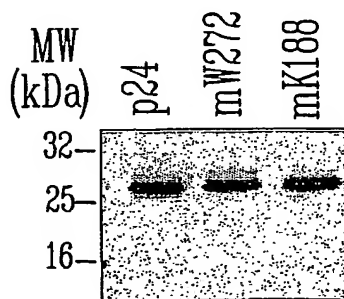


Fig- 5C

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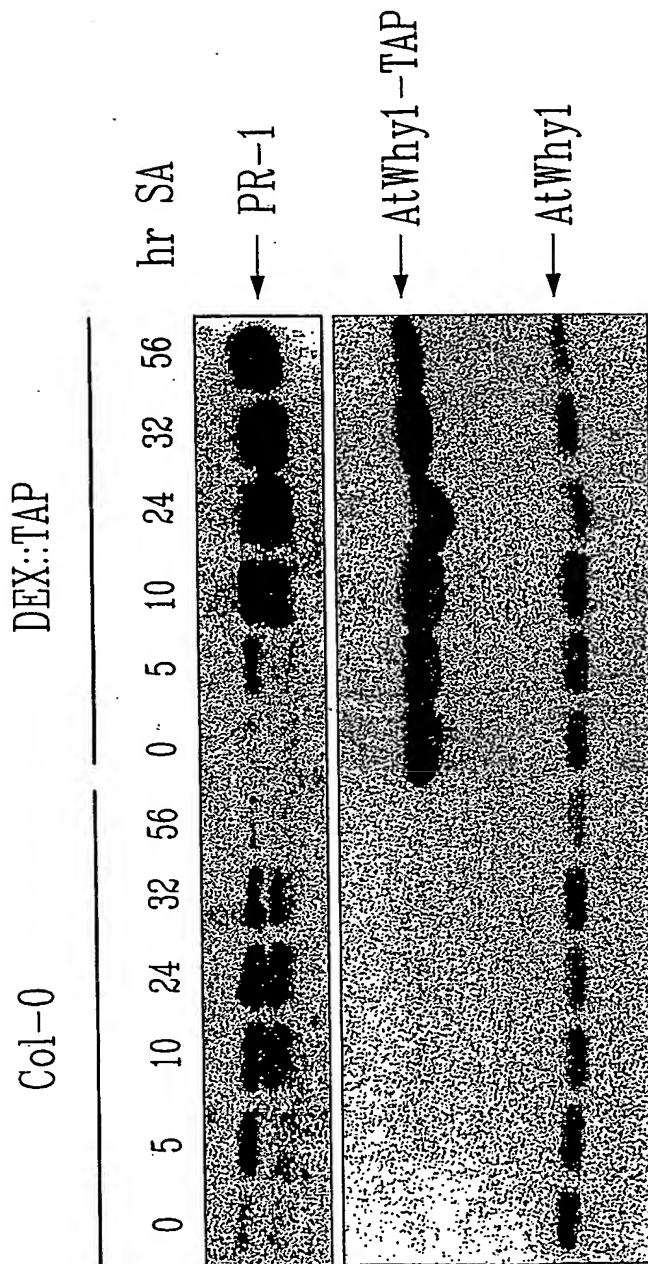
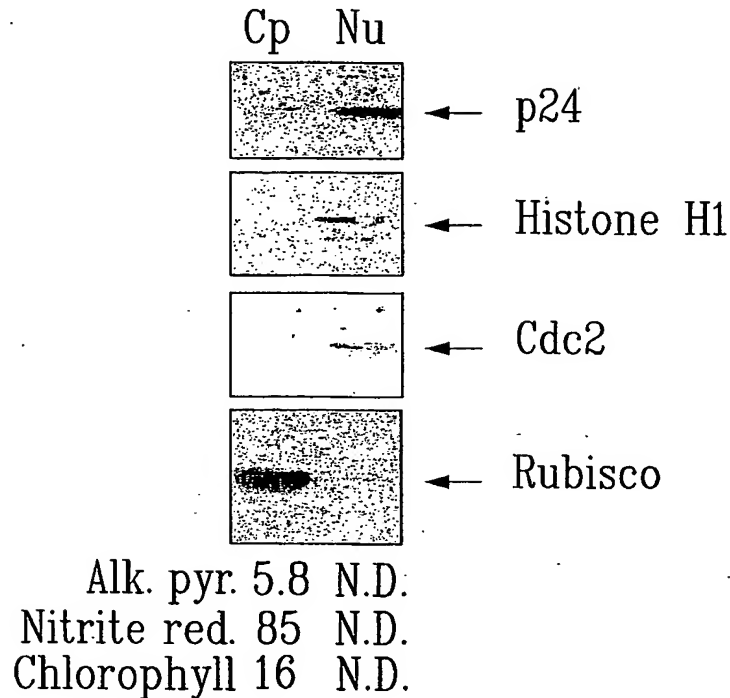


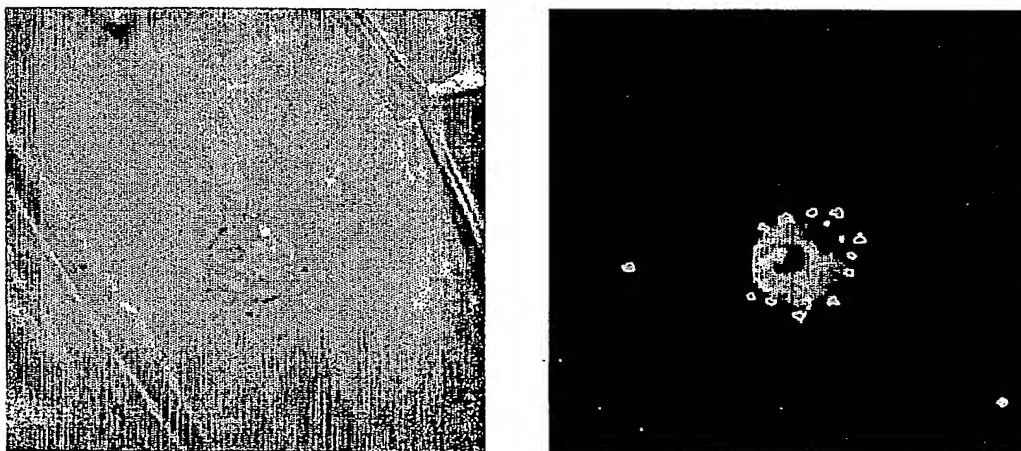
Fig-6

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Intracellular Localization of p24 in Potato Leaves

Fig-7

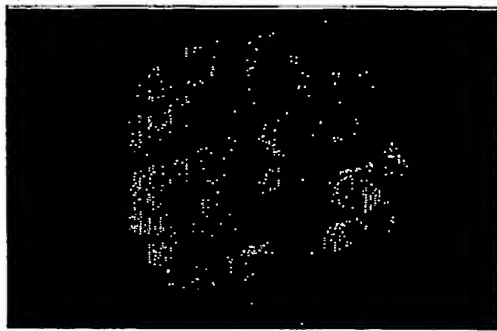
Intracellular Localization of p24-GFP in Roots

Fig-8

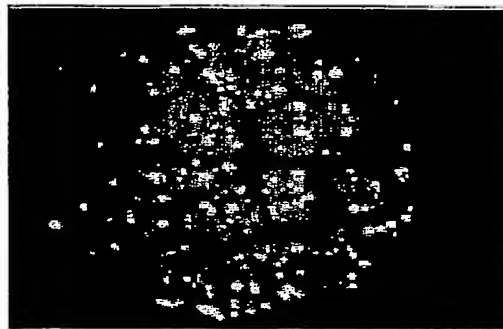
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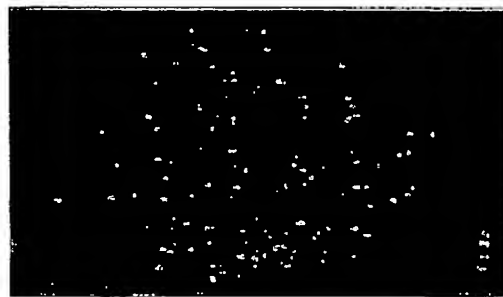
Chloroplast Localization of p24-GFP in Mesophyll Cells



Chlorophyll



p24-GFP



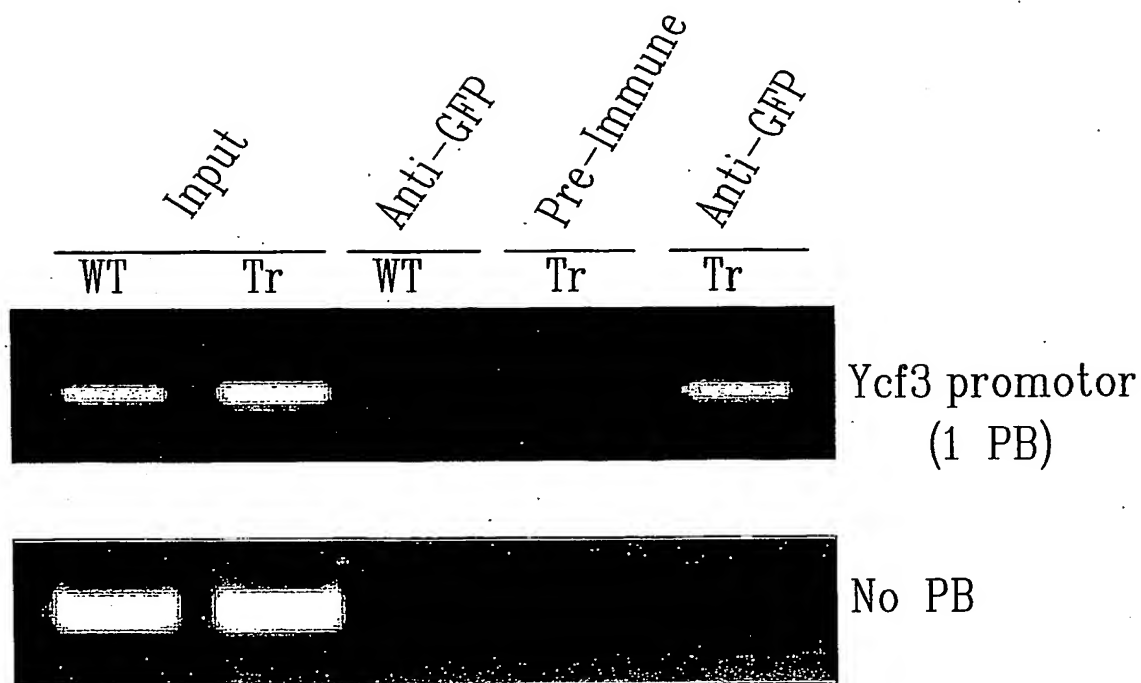
Syto85

Fig-9

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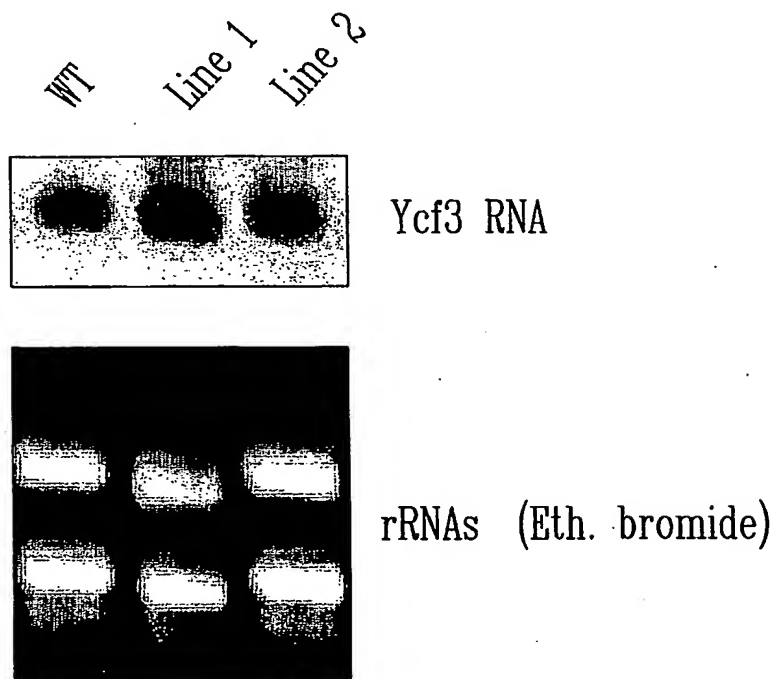
p24 Binds to *YCF3* on Chloroplast DNAFig-10

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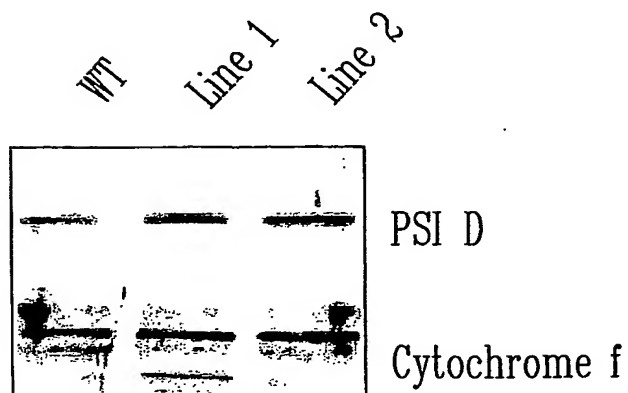
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Ycf3 RNA Increases in Wounded p30 Potato

Fig-11

PSI-D Protein Level Increases in Wounded p30-Potato

Fig-12

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